



**Password Technical College**  
44 Calle Dr. Santiago Veve  
San Germán, PR 00683  
<http://passwordtech.edu20.org>

## **Syllabus**

### **COURSE GENERAL INFORMATION**

Course Title: Security Essentials

Code: PWHS 1020

Contact Hours: 37.5

Term: April 6, 2021 to June 3, 2021

Teacher: Prof. Joel Vargas

Email: [jvargas@passwordpr.com](mailto:jvargas@passwordpr.com)

### **Course Description**

The Introduction to Cybersecurity v2.0 is designed for students who are considering IT as career with specialization in cybersecurity. This exploratory course provides the students an Introduction to cybersecurity. The curriculum will explore ways to be safe online, learn the different types of malware and attacks, measures used by organizations to mitigate the attacks, and research their career opportunities.

### **Objectives**

At the end of the course:

- Students will learn the basics of being safe online.
- Students will be introduced to different types of malware and attacks, and how organizations are protecting themselves against these attacks.
- Students will explore the career options in cybersecurity.
- Will learn the language used to describe cybersecurity concepts is designed to be easily understood by learners at all levels and embedded interactive activities help reinforce comprehension.
- Will participate in activities, including paper-based labs, videos, and quizzes, address a variety of learning styles and help stimulate learning and promote increased knowledge retention.

## Skills Distribution

### Introduction to Cybersecurity v2.0 Course Outline

<b>Class 1</b>	Chapter 1- The Need fo Cybersecurity
<b>Class 2</b>	Chapter 1- The Need fo Cybersecurity (Cont.)
<b>Class 3</b>	Chapter 2- Attacks, Concepts and Techniques
<b>Class 4</b>	Chapter 2- Attacks, Concepts and Techniques (Cont.)
<b>Class 5</b>	Chapter 3- Protecting Your Data and Privacy
<b>Class 6</b>	Chapter 3- Protecting Your Data and Privacy (Cont.)
<b>Class 7</b>	Chapter 4- Protecting Your Data and Privacy
<b>Class 8</b>	Chapter 4- Protecting Your Data and Privacy (Cont.)
<b>Class 9</b>	Chapter 5- Cybersecurity is a Big Business?
<b>Class 10</b>	Chapter 5- Cybersecurity is a Big Business? (Cont.)
<b>Class 11</b>	Chapter 6- The Cybersecurity World
<b>Class 12</b>	Chapter 6- The Cybersecurity World (Cont.)
<b>Class 13</b>	Chapter 7- Cybersecurity Cube
<b>Class 14</b>	Chapter 8- Cybersecurity Threats, Vulnerabilities and Attacks
<b>Class 15</b>	Chapter 8- Cybersecurity Threats, Vulnerabilities and Attacks (Cont.)
<b>Class 16</b>	Chapter 9- Cryptography
<b>Class 17</b>	Chapter 9- Cryptography (Cont.)
<b>Class 18</b>	Chapter 10- High Availability

### Forums:

- Foro 1: Razones por la que las empresas Luchan por la ciberseguridad
- Foro 2: Vulnerabilidades dejan expuesta a Freidora
- Foro 3: Exponen 1.5 Millones de contraseñas gubernamentales
- Foro 4: Stalkerware una amenaza peligrosa
- Foro 5: Es Legal utilizar Windows 10 sin Licencia



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## Evaluation Criteria

<b>CRITERIA</b>	<b>Grade total</b>
1 Mid-Term Exam	100
1 Final Exam	100
6 Quizzes	100
Forums 1-5	100
Total	400

\*4 Points less for each absence.

\*Assignments are always due in class on the day designated. You are responsible for any work lost due to technical problems, etc. Late papers will lose a letter grade for each day that they are late. Any exceptions must be properly documented and discussed in advance for an extension to be arranged.

## Educational Resources

Cisco Corporate Social Responsibility program. (2021). Cisco Network Academy.

Netacad. <https://www.netacad.com>

Neo LMS (2021). Security Essentials. *passwordtech.edu20*.

<https://passwordtech.edu20.org/>

Gibson, D. (2017). CompTIA Security + Get certified get ahead SY0-601 Study Guide.

(4<sup>th</sup> Edition). YCDA, LLC. Virginia Beach, VA.



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## Notes

- **Reasonable Accommodation:** Any student who requires a reasonable accommodation should do the request at the beginning of the course or as soon as he / she acquires knowledge of what it requires, through the Professor in charge and this notifying the Academic Director.
- **Honesty, fraud, plagiarism:** The lack of honesty, fraud, plagiarism and / or any other inappropriate behavior in relation to the student's academic performance constitute violations of the Institution's Catalog, its Rules of Conduct and Student Duties. Major infractions, as determined by the Catalog, may result in the suspension of the Institution for a definite time or permanent expulsion as stipulated in the Norms of Conduct and Duties of the Student.